

FLUID COUPLER

ABSTRACT OF THE DISCLOSURE

In a second stage of the insertion of a male coupler 1 into a female couple 2, a stationary valve member 5 of the female coupler 1 moves a secondary movable valve member 47 of the male coupler 2 rearwards relative to a primary movable valve member 38 of the same so that the front end portion of the stationary valve member 5 advances into the front end portion of the primary movable valve member 38 and, thus, the interior surface of the front end portion of the primary movable valve member 38 covers and sealingly engages a first sealing ring 13 provided on an outer peripheral portion of the front end portion of the stationary valve member 5 and, simultaneously, a front end portion of a cylindrical coupler body 31 of the male coupler overlaps the exterior surface of the front end portion of the movable valve member 15 of the female coupler so that a second sealing ring 36 provided on the interior surface of the cylindrical coupler body is covered and sealingly engaged by the exterior surface of the movable valve member 15. In a final stage of the insertion, the female and male couplers are connected with each other with the first and second sealing rings being kept covered by the front end portions of the primary movable valve member 38 and the movable valve member 15, respectively.